

CHAPTER 590 - PETROLEUM PRODUCTS AND ANTIFREEZE

ANTIFREEZE

NAC 590.010 Specifications for antifreeze. ([NRS 233B.040](#), [590.400](#)) Except as otherwise provided in [NAC 590.030](#):

1. The specifications for antifreeze based on ethylene glycol or propylene glycol contained in volume 15.05, Engine Coolants, of the ~~1997~~ 2000 Annual Book of American Society for Testing and Materials (ASTM) Standards, ASTM designation ~~D-3306-94~~ D3306-00a, are hereby adopted by reference. Any subsequent edition shall be deemed approved by the board unless the edition is disapproved by the board within 60 days after the date of publication. ~~2. The specifications for antifreeze based on propylene glycol contained in volume 15.05, Engine Coolants, of the 1997 Annual Book of American Society for Testing and Materials (ASTM) Standards, ASTM designation D-5216-95, are hereby adopted by reference.~~

3.2. The chemical and physical properties of any antifreeze other than those classified in subsection 1 ~~or 2~~ must be:

Water, mass %.....	5 max
Specific gravity 60°F/60°F.....	1.11 to 1.15
pH (33% by volume) 7.5 to 11.....	7.5 to 11
Equilibrium boiling point.....	300°F min
Freezing point, 50% by volume.....	-34°F max
Foaming test	
Increase in volume at 5 minutes.....	150 ml max
Break time.....	5 sec max

4.3. In addition to the properties listed in subsection 3.2, any antifreeze other than those classified in subsection 1 ~~or 2~~ must meet the following specifications for corrosion (loss of weight per specimen):

Copper.....	10 mg max
Solder.....	20 mg max
Brass.....	10 mg max
Steel.....	10 mg max
Cast iron.....	10 mg max
Aluminum.....	30 mg max

NAC 590.030 Standards for prediluted antifreeze. ([NRS 233B.040](#), [590.400](#)) The minimum standards of chemical and physical properties for an antifreeze which:

1. Is labeled as prediluted antifreeze; and
2. Displays prominently on the front label the words "DO NOT ADD WATER," contained in volume 15.05, Engine Coolants, of the ~~1998~~ 2000 Annual Book of American Society for Testing and Materials (ASTM) Standards, ASTM designation ~~D-4656-95~~ D3306-00a, are hereby adopted by reference. Any subsequent edition shall be deemed approved by the board at its first meeting after publication, unless disapproved by the board within 60 days.

NAC 590.035 Availability of volume 15.05, Engine Coolants, of ~~1998 2000~~ Annual Book of American Society for Testing and Materials Standards. (NRS 233B.040, 590.400) Volume 15.05, Engine Coolants, of the ~~1998 2000~~ Annual Book of American Society for Testing and Materials (ASTM) Standards, and any subsequent edition, is available for inspection at the office of the State Department of Agriculture, 350 Capitol Hill Avenue, Reno, Nevada 89502. The volume may be purchased at a cost of ~~\$89~~ \$140 from the American Society for Testing and Materials, 100 Barr ~~Harber~~ Harbor Drive, West Conshohocken, Pennsylvania 19428.

FUELS

NAC 590.045 Availability of volume 05.01 to 05.03, Petroleum Products and Lubricants, of ~~1998 2001~~ Annual Book of American Society for Testing and Materials Standards. (NRS 590.070, 590.073)

1. Volume 05.01 to 5.03, Petroleum Products and Lubricants, of the ~~1998 2001~~ Annual Book of American Society for Testing and Materials Standards, and any subsequent edition, ~~is are~~ available for inspection at the offices of the State Department of Agriculture, 350 Capitol Hill Avenue, Reno, Nevada 89502 and 2300 McLeod Street, Las Vegas, Nevada 89104.

2. The volumes ~~s~~ may be purchased at a cost of ~~\$150~~ \$541 from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428.

NAC 590.050 Specifications for diesel fuel; posting of grade for diesel fuel oil. (NRS 590.070)

1. Except as otherwise provided in subsection 2, the state board of agriculture hereby adopts by reference:

(a) For diesel fuel intended for use in an internal combustion engine, if the internal combustion engine is not installed in a motor vehicle that is operated primarily on a highway, the specifications for diesel fuel; and

(b) For diesel fuel intended for use in a motor vehicle that is operated primarily on a highway, the low sulfur specifications for diesel fuel, contained in volume 05.01, Petroleum Products and Lubricants, of the ~~1998 2001~~ Annual Book of American Society for Testing and Materials (ASTM) Standards, ASTM designation ~~D-975-97~~ D 975-98b. Any subsequent edition shall be deemed approved by the board at its first meeting after publication, unless disapproved by the board within 60 days.

NAC 590.055 Aviation fuel: Adoption by reference of specifications. (NRS 590.073) The state sealer of weights and measures hereby adopts by reference the specifications for aviation fuel contained in volume 05.01, Petroleum Products and Lubricants, of the ~~1998 2001~~ Annual Book of American Society for Testing and Materials (ASTM) Standards, ASTM designations ~~D 910-97~~ D 910-99 and ~~D-1655-97~~ D1655-00a. Any subsequent edition shall be deemed approved by the board at its first meeting after publication, unless disapproved by the board within 60 days.

NAC 590.061 Adoption by reference of antiknock index for testing octane rating of gasoline; determination of octane rating number; proof of transfer of fuel. (NRS 590.070)

1. The state board of agriculture hereby adopts by reference the antiknock index for testing the octane rating of gasoline that is defined in volume ~~05-03~~ 05.02, Petroleum Products and Lubricants, of the ~~1998 2001~~ Annual Book of American Society for Testing and Materials (ASTM) Standards, ASTM designation ~~D-4814-97b~~ D 4814-00. Any subsequent edition shall be deemed approved by the board unless disapproved by the board within 60 days. ~~Volume 05.03, is available for inspection at the offices of the~~

~~State Department of Agriculture, 350 Capitol Hill Avenue, Reno, Nevada 89502 and 2300 McLeod Street, Las Vegas, Nevada 89104. The volume may be purchased at a cost of \$165 from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428.~~

NAC 590.065 Gasoline: Adoption of specification guides by reference; exemption from strict compliance with standards; limitations on vapor pressure; limitations on contents. ([NRS 561.105](#), [590.070](#))

1. Except as otherwise provided in this section, the state board of agriculture hereby adopts by reference the specification guides for gasoline contained in volume ~~05.03~~ [05.02](#), Petroleum Products and Lubricants, of the ~~1998~~ [2001](#) Annual Book of American Society for Testing and Materials (ASTM) Standards, ASTM designation ~~D-4814-97b~~ [D 4814-00](#). Any subsequent edition shall be deemed approved by the board at its first meeting after publication, unless disapproved by the board within 60 days.

~~2. Volume 05.03, is available for inspection at the offices of the State Department of Agriculture, 350 Capitol Hill Avenue, Reno, Nevada 89502 and 2300 McLeod Street, Las Vegas, Nevada 89104. The volume may be purchased at a cost of \$165 from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428.~~

[3.2](#). Except as otherwise provided in subsection [4.3](#), gasoline containing 9.0 percent ethanol by volume or more is permitted an additional 1.0 pound per square inch on the vapor pressure specification.

[4.3](#). Gasoline sold in Clark County between October 1 and the following March 31 must not exceed a vapor pressure of 9.0 pounds per square inch and must meet the specifications relating to distillation set forth for volatility class A, B or C in ASTM designation ~~D-4814-97b~~ [D4814-00](#).

[5.4](#). A person shall not sell, offer for sale, supply or offer to supply in this state any gasoline, intended for use in a vehicle which is primarily driven on a highway if:

- (a) It contains more than 0.05 gram of lead per gallon;
- (b) It contains more than 0.005 gram of phosphorus per gallon;
- (c) Manganese or any compound of manganese has been added to the gasoline; or
- (d) It contains more than 10 percent ethanol by volume.

[6.5](#). A person shall not sell, offer for sale, supply or offer to supply in:

(a) The area of this state which is east of the 118th degree of west longitude and north of the 38th degree of north latitude, any gasoline which contains more than 800 parts per million of sulfur.

(b) Any other area of this state which is not described in paragraph (a), any gasoline which contains more than 300 parts per million of sulfur.

NAC 590.XXX Equivalent Test Methods

1. Whenever this section provides for the use of a specified test method, another test method may be used following a determination by the state sealer of weights and measures that the other method produces results equivalent to the results with the specified method. An ASTM approved method that has not yet been published would meet the appropriate criteria.